

## DATA & APPLICATIONS ONLINE

## **Mercury Advanced Product Search**

## Overview

Mercury is a tool for discovering and accessing a broad range of ecological and biogeochemical data, with an easy-to-use search interface based on location, time range, and keywords. Using Mercury, users can search and access data held at the Oak Ridge National Laboratory Distributed Active Archive Center (ORNL DAAC), as well as search related data at other data centers, including the Long Term Ecological Research (LTER) Network and the Organization of Biological Field Stations (OBFS).

The ORNL DAAC is one of the NASA Earth Observing System Data and Information System (EOSDIS) data centers. NASA data centers provide a wide variety of interdisciplinary Earth system science data, information, services, and tools.

While Mercury was originally developed for NASA and the ORNL DAAC, the technology and easy-to-use interface have proven useful in a number of other areas. Mercury is currently in use in 11 different projects, with funding from NASA, the U.S. Geological Survey (USGS), and the Department of Energy (DOE).

for biogeochemical dynamics Metadata Search System 🤓 Use Mercury to search ORNL DAAC products and related data sets Search by Keywords Search by Date Range during 💌 thru mm/dd/yyyy -Search by Spatial-Coordinate Search from Data Sources ✓ ORNL DAAC Archived Data (ORNL DAAC) (i) WORLD ( ✓ Land Validation Data (LandVal) (i) €<u></u> Regional and Global Data (RGD) (i)

LPDAAC - MODIS and ASTER Products (i) Select from list ± = ✓ Long Term Ecological Research (LTER) Network (i) ✓ Organization of Biological Field Stations (i) deselect the boxes to limit the search 0 Google 'Click on 🛎 to select an area Query being built Not Editable HELP SEARCH CLEAR QUERY To search all of NASA's EOS data holdings, please use WIST Client

Mercury supports various metadata standards, including XML, Z39.50, FGDC, Dublin-Core, Darwin-Core, EML, and ISO-19115. Mercury is implemented using a Service-Oriented Architecture based on open source tools and provides multiple search interfaces, including the graphical user interface, Really Simple Syndication (RSS), Geo-RSS, OpenSearch, Web Services, and JSR-168 Portlets.

## Data

- Mercury has several search capabilities, including simple, fielded, temporal, and spatial. It is compatible with Internet search engines.
- Mercury's search summary page provides an integrated summary of the search results across multiple data sources, with tools for sorting and filtering these results. The results can also be emailed, bookmarked, or used as an RSS feed.

To learn more, go to http://mercury.ornl.gov/ornldaac



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